

Notice of Allowability	Application No.	Applicant(s)	
	10/090,786	KIMURA, JUNICHI	
	Examiner	Art Unit	
	Thanh Y. Tran	2827	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in or other appropriate commu	h the correspondence address this application. If not included	<b>S</b> ative
1. ☐ This communication is responsive to 6/2/04.			
2. The allowed claim(s) is/are 21-32 and 34-43.			
3. The drawings filed on <u>02 June 2004</u> are accepted by the E	xaminer.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority un</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	been received.		
2. Certified copies of the priority documents have	been received in Application	No	
<ol> <li>Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received	in this national stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMING THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives to complete the control of	tted. Note the attached EXANs reason(s) why the oath or obe submitted.  The submitted are submitted.  The submitted are submitted are submitted.  The submitted are submitted are submitted are submitted are submitted.  The submitted are submitted.	IINER'S AMENDMENT or NOTICE OF eclaration is deficient.  PTO-948) attached  the Office action of  drawings in the front (not the back) of 1.121(d).	
Attachment(s)	OR THE DEPOSIT OF BIOL	DGICAL MATERIAL.	
Notice of References Cited (PTO-892)	5. Notice of Infor	nal Patent Application (PTO-152)	İ
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	mary (PTO-413),	
Information Disclosure Statements (PTO-1449 or PTO/SB/08)  Paper No./Mail Date	Paper No./Ma ), 7. ☐ Examiner's An	il Date <u>7/8/04</u> . nendment/Comment	
. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta 9. □ Other	tement of Reasons for Allowance	

## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 21-32 and 34-43 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

  claim 21 recites, inter alia, "a module comprising an electrode in the recess, the electrode
  is spaced from the lateral side such that no portion of the electrode is co-planar with the surface",
  in combination with other claimed features.

claim 34 recites, inter alia, "a method comprising removing the decomposed exposed regions of the resist so as to expose the part of the metal plated portion on the interior surface of the hole over which the exposed portions of the resist were positioned; and removing the exposed part of the metal plated portion from the interior surface of the hole", in combination with other claimed features.

claim 39 recites, inter alia, "a method comprising removing the uncured regions of the resist so as to expose the part of the metal plated portion on the interior surface of the hole over which the covered portions of the resist were positioned; and removing the exposed part of the metal plated portion from the interior surface of the hole", in combination with other claimed features.

- 3. The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include the above limitations.
- 4. Okada et al (U.S. 6,534,726) discloses in figures 1 and 2 a module substrate (11) comprising an electrode (solder 17) in the recess (hole 13), the electrode is spaced from the

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lateral side, however, the portion of the electrode is co-planar with the lateral surface of the substrate.

5. Okada et al (U.S. 6,571,469) discloses in figures 1-3 a module substrate (100) wherein the outer edge of electrode (solder 108) are not co-planar with the lateral surface. Nevertheless, the claim states that NO PORTION is co-planar. As seen in figure 11 of the instant invention, the electrode is set back from the lateral surface of the substrate. So, no part of the electrode lies in the same surface as the lateral surface. With Okada et al the central part of the electrode (108) lies in the same planar (same plane) with the lateral surface because the electrode projects beyond the lateral surface. As such Okada does not meet the limitation that NO PORTION is co-planar.

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## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Y. Tran whose telephone number is (571) 272-2110. The examiner can normally be reached on Monday through Thursday and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo, can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800